



National Accreditation Board for Testing and Calibration Laboratories (NABL)

Procedure for Integrated Assessment & Additional Requirements of Regulatory Body(ies) For Testing Laboratories

ISSUE NO.: 02
ISSUE DATE: 06-Jan-2023

AMENDMENT NO.: 05
AMENDMENT DATE: 10-Aug-2026

AMENDMENT SHEET

S. No.	Amendment No.	Page No.	Clause No.	Date of Amendment	Amendment	Reasons	Signature QA Team	Signature of Competent Authority	
1.	01	3	1.3	22.01.2024	As highlighted	Empanelment of Spices & Shellac & Forest Products Export Promotion Council (SHEFEXIL) under Integrated Assessment & Internal Review	-Sd/-	-Sd/-	
2.			1.4			Regulators requirement			
3.		33	6.2 6.5 6.6 6.7 6.8 6.9			Regulatory requirements from FSSAI			
4.			34						6.10 6.11 6.15 6.16
5.			35						6.18 6.20
6.		37-40	7			Empanelment of Spices under Integrated Assessment.			
7.		41-43	8		As highlighted	Empanelment of Shellac & Forest Products Export Promotion Council (SHEFEXIL) under Integrated Assessment.			
8.	02	37-42	7	08.08.2025	As highlighted	Regulatory Requirements	-Sd/-	-Sd/-	

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9.	03	12	2	28.11.2025	As highlighted	Regulatory Requirements	-Sd/-	-Sd/-
10.	04	4, 45-47	--	09.02.2026	As highlighted	Empanelment of Coconut Development Board under Integrated Assessment	-Sd/-	-Sd/-
11.	05	7, 13, 25, 46, 48-52	1,2, 3, 9, 10	10.08.2026	As highlighted	• Regulatory Requirement • Internal Review • Inclusion of Mobile Food Testing Laboratories (MFTLs)	-Sd/-	-Sd/-

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1. Procedure for Integrated Assessment of Testing Laboratories to obtain Recognition/Approval from Regulatory Body(ies)

- 1.1. This document describes specific requirements of assessment that a testing laboratory, seeking recognition / approval from Export Inspection council (EIC), Agricultural and Processed Food Products Export Development Authority (APEDA), Food Safety and Standards Authority of India (FSSAI), Shellac & Forest Products Export Promotion Council (SHEFEXIL), Indian Oilseeds and Produce Export Promotion Council (IOPEPC), Spices Board, Coconut Development Board (CDB) and Other commodity Board(s) has to meet, in parallel to the accreditation in accordance with of ISO/IEC 17025 by NABL.
- 1.2. The application for integrated Accreditation/Recognition/ Approval scheme for the specific scope shall be taken into consideration only on the scrutiny by NABL and evaluation of competence and compliance through integrated assessment approach by NABL /EIC / APEDA /FSSAI, grant of accreditation by NABL and parallel recognition from concerned regulatory Body (ies) based on the decision of NABL. Relevant information may be downloaded from NABL website (www.nabl-india.org)
- 1.3. Application fee and Assessment charges will be paid to NABL only. All other charges including the Annual Accreditation fee/ Membership fee/ Approval fee as applicable shall be payable to the respective regulatory body (ies).
- 1.4. Laboratory seeking approval from regulatory Body with NABL accreditation through integrated assessment approach, shall apply to NABL Office in the prescribed application form (NABL 154) for all the parameters under applied commodity/ product group as specified by the respective Regulatory Body (ies), along with a copy of its Quality manual/ Management System document, enclosures, and application fee, as prescribed from time to time or through Online National Laboratory Portal. Application with partial scope for product/ matrix shall not be accepted and Approval/ Recognition shall not be granted for the partial scope to the laboratories. Further, any lab seeking accreditation for testing of food and allied items for any other regulatory body or board shall by default apply for FSSAI-NABL Integrated Assessment.
- 1.5. On receipt of the application, laboratory quality manual/ Management System document along with the fee details and other requisite enclosures, NABL shall scrutinize the same for its completeness as well as adequacy of facilities with regard to list of equipment and details of personnel to meet the basic requirements, with the applied scope of interest to NABL, EIC, FSSAI and APEDA for accreditation/ approval.
- 1.6. The application shall be signed by the proprietor, partner or the Chief Executive Officer (CEO) of the Laboratory or any person duly authorized for this purpose. The authorization shall be supported with the Board resolution or a letter, as applicable under Companies Act /Rules. The name and designation of the person signing the application must be recorded legibly in a space apart for the purpose in the application form.

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- 1.7. NABL shall process the application for Pre-assessment (which is optional) only after adjudging the suitability of management system by adequacy audit. Lead assessor shall be deputed to ascertain compliance to the documented Management System, equipment facilities/ infrastructure, concerned Regulatory Body's requirements and importing countries requirements as per international norms.
- 1.8. The assessment team shall be nominated by NABL for on-site witness audit of the laboratory pertaining to verification for the methods of sampling and analysis. The team so nominated shall conduct assessment; follow up assessments, if needed as well as surveillance of the laboratory.
- 1.9. The composition of assessment team would be selected from NABL empanelled assessors/ experts, one or more representative depending upon the scope from concerned regulatory body for testing laboratories; the team shall be independent and impartial conforming to requirements of Accreditation/Recognition/ Approval.
- 1.10. The constitution of assessment team may be shared with the regulatory body(ies) before approval to avoid potential conflict of interest, if required.
- 1.11. The duration of assessment shall be normally of 5 days depending upon the scope applied.
- 1.12. The assessment team will be based on the scope applied. The assessment team will cover compliance to ISO/IEC 17025, importing countries' requirements, sampling and relevant additional requirement of concerned Regulatory Body(ies).
- 1.13. The integrated assessment conducted shall cover areas of the relevance to the scope of Accreditation /Recognition/ Approval of the laboratory. Assessment shall include verification of test facilities, accommodation and environment, examination of documents and records, in house internationally accepted method validation documents in place, that shall be matrix specific for the scope applied for Accreditation /Recognition/ Approval, competence of laboratory personnel in conducting laboratory analysis/ testing, performance in witness tests, documentary evidence of participation in International Proficiency testing programs for relevant analytes and matrices and compliance to its Annual Plan for participation in such programs.
- 1.14. The assessment team shall recommend for Accreditation /Recognition/ Approval of the laboratory for the specific scope in case there is no major or minor NC. The Lead assessor and the corresponding technical assessor shall duly sign on the recommended scope with appropriate recommendation.
- 1.15. In case of any NC, the assessment team may recommend for Accreditation /Recognition/ Approval of the laboratory subject to closure of those said NCs. No NC shall be closed at the time of assessment.
- 1.16. The Laboratory shall take necessary Corrective actions within the stipulated time period of not more than 30 days for the closure of NCs, brought out on record by the assessment team. The minor NC closure may not require on-site verification; however, closure of major NC may require on-site verification.

- 1.17. The follow up visit, for full or partial assessment, may be carried out on request. Laboratory shall bear the applicable assessment charges and make arrangements of accommodation and travel for the assessment team. During the verification assessment, if the implementation of the corrective action is not found satisfactory, then the laboratory shall not be recommended for Accreditation/ Recognition/Approval and the laboratory shall have to apply afresh after taking satisfactory corrective action.
- 1.18. In case of Non-closure of the non-conformities within stipulated time period, action shall be taken as per NABL 216.
- 1.19. On receipt of corrective action report, NABL shall review the actions taken along with the objective evidence that the actions taken are sufficient and effective and obtain comments of the team members regarding the closure of non-Conformities. If the actions taken by the laboratory are insufficient, further information shall be sought.
- 1.20. A representative from the concerned regulatory body(ies) will be the part of the accreditation committee or the assessment report will be shared for comments with the concerned regulatory body (ies) prior to decision making, if required.
- 1.21. After approval from the CEO, NABL, Accreditation certificate with the scope of accreditation shall be issued by NABL. The scope of recognition/Approval (Annexure B) shall be issued by NABL with name & logo of concerned Regulatory Body (ies)
- 1.22. The Accreditation /Recognition/ Approval granted shall be valid for a period two year from the date of approval and it shall be renewable after two years at a time. Validity of the laboratory Accreditation /Recognition/ Approval shall be specified on the recognition/ Accreditation certificate.
- 1.23. During the validity of approval/ recognition, if the laboratory is found violating the terms and conditions of Approval/ recognition, its approval/ recognition is liable to be suspended and may call for verification visits, for which the laboratory is liable to pay visit charges. If complaint is received from importing country (e.g. RASFF- Rapid Alert System on Food and Feed) against a consignment, of any hazards either microbiological or other contaminants like heavy metals, pesticide or antibiotic residues, the laboratory in which the sample has been tested and or drawn prior to export, or by any other means (regulatory body or any other sources) shall be subjected to audit trail (verification audit-informed in advance/ uninformed depending upon the nature of complaint) by a joint assessment team comprising of officer/ assessors from the concerned regulatory body(ies) or commodity boards and NABL immediately. The expenditure incurring for the verification assessment shall be borne by the laboratory. Such verification assessment shall also be conducted in case of any other complaints in sampling, testing and test reports or any other reasons as deemed fit.
- 1.24. The accredited/ approved/ recognized laboratory shall be subject to on-site surveillance once in a year by NABL to verify the continued compliance, competency and the implementation of quality system established by the laboratory. The on-site surveillance assessment will be less comprehensive than reassessment.

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- 1.25. Annual on-site surveillance shall be carried out by the assessment team nominated by NABL including representative of Concerned Body(ies) and shall be carried out in same manner as in initial assessment.
- 1.26. Any Accredited/Approved laboratory automatically expires at the end of the period of its Accreditation /Recognition/ Approval. The Lab shall apply to NABL at least six months before the date of expiry of its Accreditation /Recognition/ Approval.
- 1.27. The approved laboratory can request NABL for extension of its scope of approval to cover additional product/matrix and parameter/ personnel responsible for authorizing the results/ sampler. The Laboratory shall apply in the prescribed format by filling in the relevant information applicable for the extension of the scope along with supporting documents and application.
- 1.28. For qualification & experience requirements for personnel responsible for authorizing the results, please refer Appendix A of this document.
- 1.29. If recognition by a regulatory body/ commodity board is denied for a particular commodity/ product group, the laboratory shall apply afresh for the complete set of parameters under that particular commodity by submitting the applicable fee as defined in NABL 100A.
Note: This clause can be superseded by Regulatory body (ies) / Commodity board requirements which may state otherwise.
- 1.30. Laboratory seeking recognition through integrated assessment shall have unidirectional structured testing facility for microbiological analysis as per the regulatory body's requirement.
- 1.31. All the test reports issued by the laboratory for the scope under Integrated Assessment shall bear NABL symbol in line with NABL 133 'Policy for Use of NABL Symbol and / or Claim of Accreditation by Accredited Conformity Assessment Bodies (CAB) & NABL Accredited CAB Combined ILAC MRA Mark'.
- 1.32. In-house testing laboratories of Food Business Operators (manufacturers, processors, exporters, etc.) are not eligible for recognition/approval by the Regulatory Body(ies)

Note 2: In addition to the above-mentioned procedure & requirements, other NABL requirements as defined in relevant NABL documents such as NABL 131, 132, 133, 134, 142, 163 & 216 to deal with, shall also be applicable.

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2. Additional Requirements of Export Inspection Council (EIC)

- 2.1. This document describes specific requirements of Export Inspection council (EIC), which, a testing laboratory has to comply in conjunction with the requirements of ISO/IEC 17025.
- 2.2. The laboratories seeking approval shall have implemented and maintained laboratory management system in accordance with ISO/IEC 17025; 'General requirements for competence of testing and Calibration Laboratories' and adequate capability and competence for testing of Food safety and quality parameters as per the requirements of EIC and importing countries. The approval for the scope of interest to EIC is granted, provided, it is adjudged for its capabilities and competency as per the international requirements and notifications issued for various commodities from time to time. For the purpose of certification of products for export to European Union, the testing of the products shall be as per the European Commission regulations guidelines.
- 2.3. The application for approval shall be considered based on the testing requirement, which EIC is looking for. NABL/ EIC concerned reserves the right to reject an application for one or more of the following reasons:
 - 2.3.1 The Laboratory is seeking approval for the scope, which is not the need of EIC at that time.
 - 2.3.2 The Laboratory does not have adequate facilities for the scope for approval and adequate audit fee, as applicable has not been submitted.
 - 2.3.3 The laboratory is subcontracting any test under the scope for approval.
 - 2.3.4 Any other reason as deemed fit by NABL/ EIC, without giving any reason.
 - 2.3.5 The scope covered shall not include any test by sub-contracting. Sub-contracting is permitted with prior permission of EIC, to another EIC approved laboratory with valid scope of approval only in case of failure of instrument. Subcontracting is not permitted from the laboratory, which is not approved by Regulatory Body.
 - 2.3.6 The approved laboratory shall participate in all the Proficiency Testing Programmes conducted by accredited Export Inspection Laboratories as per ISO/IEC 17043.
 - 2.3.7 Evaluation of samplers for authorization for sampling to assess the technical competence in a specific area shall also be conducted during the assessment. The sampler shall have the minimum qualification of graduation.
- 2.4. The testing under the scope for approval shall be in compliance to the methods of validation as per the requirements of the importing countries. E.g. for the purpose of export to European Union, testing shall be in compliance with the requirements as per the relevant Regulations, Directives and Decisions of European Commission.

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- 2.5. The approved laboratory can request NABL for approval of additional personnel responsible for authorizing the results/ samplers. In such cases an onsite assessment shall be conducted for the additional authorized samplers/signatories as per the procedure.
- 2.6. Based on the finding of the verification assessment, NABL along with EIC shall take appropriate action including suspension / withdrawal of approval of the laboratory as per NABL 216 document.
- 2.7. The approved laboratory shall not make any change in the Quality Management System, which forms the basis for the grant of the approval and which prevents its compliance to the Scheme without prior approval of EIC.
- 2.8. Any change in key personnel in relation to quality assurance, key technical functions (including personnel responsible for authorizing the results and samplers) or senior management shall be duly intimated to EIC/NABL within a period of 15 days.
- 2.9. The approved laboratory shall inform NABL/EIC, immediately about the major changes/breakdown of equipment with reasons thereof etc. effecting testing of the relevant products/compliance to this laboratory scheme. The laboratory shall not carry out sampling or accept any sample for testing, when there is breakdown of the equipment to be required for performing the test(s). The laboratory shall not carry out sampling or accept any sample for testing, without prior approval of EIC, when there is major change in the Management System, which may affect performance of the testing.
- 2.10. The following instructions shall be followed by the approved laboratory for testing the samples sent by EIC/EIAs or processor/ exporter for the purpose of monitoring/ certification:
 - 2.10.1 Sample shall always be accompanied by a test request specifying the parameter, specification and purpose. Samples shall be not be accepted by them if they are not accompanied by such test requests.
 - 2.10.2 Whenever required, the approved laboratory shall draw samples only by its own trained, authorized and approved samplers. The Approved samplers shall have the minimum qualification of graduation with minimum sampling experience.
 - 2.10.3 The samplers shall strictly adhere to the sampling procedure of the lab based on Executive Instructions issued by EIC for various food products from time to time/ EC regulations/ Importing country requirements, and provide sampling details as per EIC requirements. The sample shall be drawn only from the complete Assortment/ Batch/ Shipment/ Consignment/ Lot as the case may be having uniform characteristic in the form of source/ production conditions/ processing conditions.
 - 2.10.4 The samplers shall also ensure drawl of true representative sample of complete Assortment/ Batch/ Shipment/ Consignment/ Lot/ Source wise/ Pond wise (if applicable) as the case may be.

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- 2.10.5 The laboratory shall ensure the integrity and chain of custody of sample during transportation. Further, laboratory shall ensure that the seal is intact with the details of the sealing indicated in the test request while accepting the samples/ sample containers sealed by EIA officers / authorized representative of laboratory / processor / exporter. A statement / report to this effect shall be made on receipt of sample and in the test report by the concerned laboratory.
- 2.11. The laboratory is liable to maintain confidentiality of samples and information thereof.
- 2.12. The laboratory shall carry out the tests as per the conditions stipulated in the relevant standard method approved by EIC, which has been satisfactorily validated “as fit for the purpose”, with duly calibrated equipment and use of only valid certified reference materials and /or internal standards.
- 2.13. The laboratory shall keep the remnants of the sample after testing for a minimum period of three months and reference sample for a period of six months in stipulated storage conditions before they are disposed off or returned to the customer. In case of samples tested for Biological parameters the sample shall be retained for reasonable period as per lab’s policy based on EIC/ Importing country’s requirement. The mode of disposal of sample after test shall be recorded and indicated in the test request as well.
- 2.14. The laboratory shall maintain the record of observations, a copy of the test report and purchase documents for a minimum period of three years. In case of chemicals/media etc, the laboratory shall maintain purchase documents till the validity of chemical/ media etc. Original data/records to establish audit trail/data integrity shall be maintained in the lab pertaining to each activity which affects the quality of test results.
- 2.15. The laboratory shall issue the test reports immediately after completion of the tests and not later than a maximum period of 7 days, excluding the time period for testing by the relevant specification.
- 2.16. The laboratory shall only utilize the service of authorized signatory (ies) and authorized sampler(s) complying with the requirements of NABL/ EIC.
- 2.17. In case of withdrawal/ cancellation of approval, the laboratory shall give an undertaking to make available the records of EIC/EIA related testing of three years.
- 2.18. The approved laboratories generating Pre-export test reports with digital signatures shall issue test reports directly to concerned EIA /S.O which will issue the Health Certificate and shall not provide any copy of above test report directly to the exporter / processor. Such laboratories shall submit an undertaking in ₹ 100/- Non-Judicial stamp signed by the CEO of the laboratory with respect to above.
- 2.19. The approved laboratory shall participate in Proficiency Testing / Inter-Laboratory Test Comparison programmes organized by national and international bodies of repute for demonstrating technical

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competence of the laboratory personnel, at its own cost. The Annual proposed plan for participation in Proficiency testing programs pertaining to approved scope for the forthcoming year shall be submitted to EIC/NABL before 31st December of each year as per Appendix 4. The laboratory shall cover all the critical parameters in the relevant matrix within a period of 4 years. In case of, unsatisfactory result (Quantitative score $Z > \pm 2$) is scored, the same shall be informed to EIC immediately with appropriate root cause analysis.

- 2.20. The approved laboratory shall permit access to EIC/EIA officer (s) / team (s) deputed for the purpose of any assessment, surveillance or investigation. It shall give access to all relevant records, documents and equipment etc. for the purpose of verifying any details.
- 2.21. An approved testing laboratory shall not use its approval in such a manner as to bring EIC/ Government of India into disrepute/ dispute and shall not make any statement relevant to its approval, which EIC may consider to be misleading.
- 2.22. A laboratory may relinquish approval by giving three months notice in writing to both NABL and EIC. It shall however complete testing of all samples pending with it or return the samples pending along with the test requests.
- 2.23. NABL/EIC may, at its discretion, cancel or suspend approval, reduce its scope or direct re assessment due to change in personnel/ equipment, breakdown of equipment, and/ or if a complaint or any other information is received which indicates that the technical competence and integrity / confidentiality of the laboratory is not satisfactory.
- 2.24. An approved testing laboratory may make a public claim regarding its approval. However, such claim shall be strictly based on the scope of its approval. It shall discontinue claiming EIC approval and withdraw all promotional and advertising materials upon expiry / suspension or cancellation of its approval. Further, the approved laboratory shall not issue any export worthy certificate / Health certificate for the commodities under the purview of EIC.
- 2.25. The approved laboratory shall submit periodic statements to EIC containing the particulars, as per the schedule given below in prescribed format (Appendix 1).

Appendix 1

i.	Number of samples declared failing/non-compliant	Monthly for the entire month by first working day of the next month
ii.	Number of samples pending testing	- do -
iii.	Delay in issuance of test reports, if any & the reason thereof	- do -
iv.	Number of samples received for testing	once in six months for the period between 1st April to 30th September and 1st October to 31st March of every financial year
v.	Number of samples tested	- do -
vi.	Number of samples declared pass/compliant	- do -
vii.	Number of samples failed specifying the parameter/test and other details	- do -

- 2.26. Whenever there is failure of sample showing test result not conforming to the specification, a report with complete details as per Appendix-3 along with test report shall be sent to EIC with a copy to regional EIAs and the customer immediately. The periodic statements of the testing shall be submitted as per Appendix 2.
- 2.27. The approved laboratory shall not handle any sample of the client for laboratory testing when the laboratory fails to demonstrate satisfactorily to EIC that its direct/indirect trade association has no consequence/ bearing on its test result
- 2.28. The approval of laboratories may also be suspended / cancelled any time during the approval period for any kind and or the reasons given below:
- 2.28.1 If EIC feels that no useful purpose is being served by the continuation of the approval of the laboratory.
- 2.28.2 If the laboratory is found violating the terms and conditions of the approval; and
- 2.28.3 If the laboratory is unable to maintain the criteria for approval.
- 2.29. The Laboratory may apply a fresh not earlier than six months from the date of cancellation / withdrawal / non-renewal of approval.
- 2.30. The laboratory shall return the pending sample (s) in appropriate conditions to the customer for onward transmission to another laboratory and undertake to retain records as per requirements stated above on cancellation/ withdrawal / non-renewal/ expiry of approval.
- 2.31. The approved laboratory shall issue the test report in format given in Appendix 5.
- 2.32. Approval under the Scheme shall be accorded to a laboratory for single premise only where actual testing is carried out. If the laboratory carries out testing activities in more than one premise, separate approval for each premise will have to be obtained with a clear demarcation of scope of

approval. However, if the laboratory establishes field / satellite laboratories for preliminary / screening tests near / at the place of the primary production of the food and feed of animal or plant origin, the facilities can be considered as part of the central / main laboratory of the establishment, with additional scope, where conformity tests can be carried out for the presence of the particular substance(s), provided such arrangements are addressed in the Quality Manual/Management system document of the Laboratory.

- 2.33. The testing charges for the products and parameters shall be applicable as fixed by EIC from time to time. However, in case the testing charges are not fixed by EIC, then mutually agreed charges shall be applied. No testing charges shall be applicable for the samples submitted by EIC/EIAs for the purpose of ILC (Inter laboratory comparison), proficiency testing, reference sample testing / verification due to complaints, if any, etc.
- 2.34. All NABL accredited laboratories recognized by the Export Inspection Council (EIC) are required to adhere to the following obligations under the Laboratory Information for Food Exports (LiFE) platform:
- 2.34.1 Regular Upload of Test Reports: Laboratories must upload test reports of all food samples analyzed for EIC by them on the LiFE portal in a timely manner.
- 2.34.2 Reporting of Non-Compliant Samples: In cases where food samples are found to be non-compliant, laboratories shall mandatorily submit Appendix–3 through the LiFE platform.
- 2.34.3 Updating Scope of Recognition: Laboratories are responsible for regularly updating their EIC-approved scope of testing on the LiFE portal to reflect any changes or revisions.
- 2.35. Non-compliance of Cl. 2.34 of this document may result in suspension of EIC recognition of the laboratory.
- 2.36. For qualification & experience requirements for personnel responsible for authorizing the results, please refer Appendix A of this document.
- 2.37. All EIC recognized laboratories shall issue test reports in the format prescribed in Appendix 5 for all EIC notified commodities analyzed for EIC purposes, irrespective of whether the samples are drawn by EIC/EIA officials, collected by the approved samples of the laboratory, or submitted by exporters/customers for export purpose, and shall upload all such test reports to the EIC LiFE/LIMS portal in a timely manner.

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Appendix 2

FORMAT FOR SUBMITTING PERIODIC STATEMENTS DETAILS OF SAMPLES TESTED AND RESULTS

(Name of the laboratory, address & contact details)

Period of statement	Total number of samples	Analyte group as listed in Annex I to Council Directive 96/23/EC	Substance	Analyte (and number of non-complaints)	Matrix / Species	method used (Screening /Confirmatory)	Validation data				Foreseen to be tested	Number of samples in the laboratory' Other residue samples taken outside the RMP/NRCP (e.g. private samples) should be listed in brackets []	No of non-compliant samples under RMP [non-RMP]	Concentration found (µg/kg) in case of non-compliant results	Details of Intimation to EIAs / MPEDA, in case of non-compliant results
							LOD (µg/kg)	LOQ (µg/kg)	CC alpha (µg/kg)	CC beta (µg/kg)		Received in lab			
												Actually tested			

Appendix 3

FORMAT FOR COMMUNICATION OF FAILURES OBSERVED DURING TESTING

Sl.	Sample Code /Sample No.	Date of receipt	Date of completion of test	Name of the exporter and approval number	Name of importing country	Type of product	Test Certificate No.	Invoice No. /Purchase order No. (if sample covered under pre export testing)*	Production code	Reasons for analysis if other than pre export*	Parameters tested	Reported Results (concentrations in µ/ kg inclusive of correction factor/recovery factor) [failures to be reported in bold]	Method of Analysis	Results communicated to EIA

* wherever applicable

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Appendix 4

Format for annual proposed plan for proficiency testing

Sl.	Analytes	Matrix	Proficiency test (Program ID Number / Round Robin No.)	Start date of proficiency test

Appendix 5

FORMAT OF TEST REPORT

(For export to Non-EU countries / EU countries including EU / (Country)

Test Report No.: (to be mentioned on every page for identification purpose with date)

Name & address of Processor/Exporter & Approval No:

Invoice order/purchase order no.:

Date of sampling:

Date of sample receipt:

Condition of Sample (at the time of receipt):

Details of sample:	
Type & Nature of Product:	
Type of Packing	
No. of M/Cs (serial no. if any)	
Code covered in the consignment. Grade covered in the consignment (if applicable) Registration number of Aquaculture pond/Farm(if applicable):	
No. of Cases selected for sampling:	
Sampled Cases Seal No. (if any):	
Sampled by (by authorized sampler for certification purpose and not by the exporter or processor):	

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Consignment intended for export to (Name of country) (if applicable):

Result of Analysis

Date of start of analysis:

Date of completion of analysis:

Test results

Sl. No.	Parameter tested for	*Unit of measurement	**Results with correct recovery along with level of recovery	Limit of determination / quantification: LOQ / CC α / CC β , as applicable (e.g. LOQ in case of pesticides, CC β , for Screening test, CC α for drugs & contaminants, etc)	LOD, as applicable	***MR L/ MRPL / ML/ RPA Limits	Analytical Method (e.g. ELISA, Delvose t, Four Plate, TLC, HPLC, LC-MS-MS, etc.)	Specification, standard/test method against which product tested like AOAC, BIS, in-house, etc.	Validation protocol (e.g. specify like 2002/657/EC, IUPAC, CODEX, etc.

* Specify the unit of measurement as $\mu\text{g/Kg}$, mg/Kg , cfu/ml etc. to avoid any confusion and use the same unit of measurement in all parameters.

** Results reported must be inclusive of recovery correction/correction factor. Result may be expressed as $x \pm U$ in case of reporting substances; wherein x is result and U is expanded uncertainty, as per method validation*** Minimum Required Performance Limits (MRPLs)/ RPA (Reference point of action) for prohibited veterinary drugs, Maximum Residue Limits (MRLs) for veterinary medicines, Maximum Residue Levels (MRLs) for pesticides and Maximum Limits (MLs) for contaminants like heavy metals, etc.

The format shall also include the additional information stipulated under specific requirements.

Remarks, if any

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3. Additional Requirements of Agricultural and Processed Food Products Export Development Authority (APEDA)

- 3.1. This document describes specific requirements of APEDA, which, a testing laboratory has to comply in conjunction with the requirements of ISO/IEC 17025: 2017.
- 3.2. Laboratories approved by APEDA shall cater to APEDA Scheduled Products & Organic Products for sampling, analysis; residue monitoring plans for exports of APEDA scheduled products as per the laid down procedures by APEDA from time to time.
- 3.3. The assessment shall be conducted shall cover areas of the relevance to the scope of approval of the laboratory. Evaluation shall include verification of test facilities, accommodation and environment, examination of documents and records, including in house internationally accepted method validation documents in place that shall be matrix specific for the scope applied for approval, assessment of competence of laboratory personnel in conducting laboratory analysis/ testing, performance in witness tests, documentary evidence of participation in PT programme organized by APEDA, NRL as well as International Proficiency testing programs.
- 3.4. The testing under the scope for recognition shall be in compliance to the analytical methods of validation as per the requirements of the importing countries.
- 3.5. The Laboratory shall be audited for internationally accepted harmonized methods of sampling, sample preparation and analysis purpose.
- 3.6. Sampling and analysis charges for each product shall also be submitted together with application by the applicant laboratory, whenever, prescribed by APEDA.
- 3.7. The laboratory shall be subjected to verification audit (informed in advance /uninformed depending upon the nature of complaint) in case of any complaints in sampling, testing and test reports or any other reasons.
- 3.8. Based on the finding of the verification assessment, NABL along with APEDA shall take appropriate action including suspension /withdrawal of approval of the laboratory as per NABL 216 document.
- 3.9. The applicant laboratories seeking approval and accreditation as per integrated assessment process shall have complete range of Chemical, Microbiological and GMO analysis before applying to NABL for approval/Accreditation.
- 3.10. The applicant laboratories would be accorded approval for:
- 3.11. Chemical, Microbiological and GMO analysis for the products specified by APEDA.
 - 3.11.1 Premises only where actual analysis is being carried out shall be approved. In case analysis is carried out at more than one premise, approval of all these facilities shall have to be obtained.

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3.12. The laboratories shall comply with the following before applying to APEDA for approval and NABL for accreditation;

3.12.1 Availability of high precision GC-MS/MS, HPLC-MS/MS, ICP-MS, etc. with appropriate back-up, supporting equipment as well as accessories so as to ensure prescribed turn-around time

3.12.2 Approval under the Scheme shall be accorded to a laboratory for single premises only where actual testing is carried out. If the laboratory carries out testing activities in more than one premise, separate approval for each premise will have to be obtained with a clear demarcation of scope of approval. However, if the laboratory establishes field / satellite laboratories for preliminary / screening tests near / at the place of the primary production of the food and feed of animal or plant origin, the facilities can be considered as part of the central / main laboratory of the establishment, with additional scope, where conformity tests can be carried out for the presence of the particular substance(s), provided such arrangements are addressed in the Quality Manual/ Management system document of the laboratory.

3.12.3 Sensitize personnel for drawing the sample, preparation of samples for analysis as well as analysis of Control sample, retention and storage in controlled temperature of appropriate capacity.

3.12.4 Method validation for sampling and residual analysis, participation in P.T. programs, organized by APEDA NRL, estimation of uncertainty, traceability, etc.

3.13. The laboratories seeking GMO analysis approval shall also comply with the following in addition to the above. The laboratories shall submit list of experts, method of sampling and list of equipment as well as any other relevant information that would be appropriate for analysis of GMO in agro products.

The following basic criteria shall be met by the applicant laboratories:

- a. The laboratories shall have basic equipment like RT-PCR, DNA sequence, etc. with appropriate back-up equipment.
- b. The laboratories shall have validated method of sampling and analysis for GMO
- c. The laboratories shall have relevant expertise to analyze GMO products in terms of technically qualified personnel

3.14. Copies of SOPs on methods of sampling and analysis as well as evidence to sensitized team for drawl of product samples retention facility in controlled temperature shall be submitted by the applicant laboratory.

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- 3.15. Details of Sampling and analysis charges for each product shall also be submitted together with application by the applicant laboratory.
- 3.16. Each application received for approval shall be considered by APEDA based on the need of a laboratory in the region/area for scheduling an assessment of the laboratory.
- 3.17. The applicant/approval laboratory shall participate in P.T. programs organized by respective National Referral Laboratory (NRL) at NRC Grapes, Pune from time-to-time for the purposes of following harmonized methods of sampling and analysis.
- 3.18. The successful laboratory shall be part of the monitoring programs implemented by APEDA or any other agencies nominated by APEDA for the products specified by it from time to time and abide by the procedures to be complied therewith such as uploading of data, chromatograms, etc. as announced by APEDA or the NRL.
- 3.19. The laboratory shall be audited for following harmonized methods of sampling, sample preparation and analysis purposes.
- 3.20. Whenever required, the approved laboratory shall draw samples only by its own trained, authorized and approved samplers. The approved samplers shall have the minimum qualification of graduation along with minimum sampling experience with training imparted by NRL, NIPHM, DMI or any other government institution on application of methods of sampling.
- 3.21. Approval to successful laboratories would be granted for analysis for the products and parameters found to be in order based on the assessment outcome for Chemical, Microbiological and GMO analysis. Evaluation of samplers for authorization of sampling to assess the technical competence in a specific area shall also be conducted during the assessment.
- 3.22. The laboratory shall be audited periodically to check utilization of harmonized methods of sampling, sample preparation and analysis. The laboratory shall also be audited by Directorate of Marketing and Inspection for the purpose of approval for issue of Agmark Grading Certificates.
- 3.23. Issue of approval may be refused or, if issued, may be cancelled or suspended:
 - a. If the laboratory does not conform or fail to perform as per requirements.
 - b. If there are adverse reports from the financial institutions/banks against any of the owner/directors/partners/trustees.
 - c. If skilled/semi-skilled personnel are not available to manage the laboratory.
 - d. If there are adverse reports from the exporters, importers, etc.
 - e. Any other complaints made to APEDA by any other entity.
- 3.24. On expiry of the approval date specified in the Approval Certificate, lab to submit the following annexure (I, II and III) with application form (NABL 154):

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- 3.25. When physical checks are to be undertaken, sampling plans for exported products should take into account the level of risk, the presentation and type of commodity to be sampled, the reliability of controls of the importing country and of those responsible for handling the product in the importing country.
- 3.26. Inspection services should draw up control programmes based on precise objectives and appropriate risk analysis. Accreditation certificate shall be attached with technical annex. There shall be documented validation reports, proficiency tests results, analytical spectrum and methods, standard operating procedures for analytical method, resources and training etc.
- 3.27. Control Programmes shall be designed with consensus of APEDA. Every effort should be made to apply risk analysis based on internationally-accepted methodology, where available. The elements of the control programme should be formally documented including methods and techniques.
- 3.28. In the drawing and analysis of samples, adequate sampling and appropriately validated analytical methods should be established to ensure that the results are representative and reliable in relation to the specific objectives and during export rejections our results shall stand robust and traceable in international market.
- 3.29. Non-conformities/ Export Rejections:
- 3.30. Where an exported product is found not to be in conformity, the resulting measures should take into account the following criteria to ensure that any action is proportionate to the degree of public health risk, potential fraud or deception of consumers:
- Repeated non-conformity in the same importing country or in the same product or in the same category of products
 - History of non-conformity of those responsible for handling the products;
 - Reliability of checks.
 - In respect of the product not in conformity, control programmes to ensure problems do not re-occur.
 - Analytical report of non-compliant samples shall be documented and retained in records.
- 3.31. Authenticity and Validity of Certificates
- Certification procedures should include procedures to ensure the authenticity and validity of certificates at all the relevant stages and to prevent fraudulent certification.
 - In particular, personnel:
 - Should not certify matters without their personal knowledge or which cannot be ascertained by them;
 - Should not sign blank or incomplete certificates, or certificates for products which have not been produced under appropriate control programmes. Where a certificate is signed on the

basis of another supporting document, the person signing the certificate should be in possession of that document;

- Should have no direct commercial interest in the products/exporters being certified.

- 3.32. During the visit of international delegations, the laboratory shall ensure the availability of inspectors/samplers/auditors who had conducted the onsite inspections/sampling for a specific audit/sampling.
- 3.33. The application for approval shall be considered based on the testing requirements of APEDA. NABL/APEDA reserves the right to reject an application for one or more of the following reasons:
- a. The Laboratory is seeking approval for the scope, which is not the need of APEDA at that time.
 - b. The Laboratory does not have adequate facilities for the scope for approval and adequacy audit fee, as applicable has not been submitted.
 - c. The laboratory is subcontracting any test under the scope for approval.
 - d. Any other reason as deemed fit by NABL/ APEDA.
- 3.34. The scope covered shall not include any test by sub-contracting.
- 3.35. The approved laboratory can request NABL for approval of additional personnel responsible for authorizing the results. In such cases an onsite assessment shall be conducted for the additional authorized signatories as per the procedure.
- 3.36. In case of authorizing additional sampler, based on documentary compliances, virtual interview of the sampler may be considered depending upon the requirements.
- 3.37. If complaint is received from importing country (e.g. RASFF- Rapid Alert System on Food and Feed, rejection, noncompliance, etc.) against a consignment, for presence of any hazards either microbiological or other contaminants like heavy metals, pesticide or antibiotic residues, the laboratory in which the sample has been tested and or drawn prior to export, shall be subjected to audit trail (verification audit-informed in advance/ uninformed depending upon the nature of complaint) by a joint assessment team comprising of officer/ assessors from APEDA and NABL immediately. The expenditure incurring for the verification assessment shall be borne by the laboratory. Such verification assessment shall also be conducted in case of any other complaints in sampling, testing and test reports or any other reasons.
- 3.38. The approved laboratory shall not make any change in the Quality Management System, which forms the basis for the grant of the recognition and which prevents its compliance to the Scheme without prior approval of APEDA/NABL.

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3.39. Any change in key personnel in relation to quality assurance, key technical functions (including personnel responsible for authorizing the results and samplers) or senior management shall be duly intimated to APEDA/NABL within a period of 15 days.

The approved laboratory shall inform NABL/ APEDA, immediately about the major changes/breakdown of equipment with reasons thereof etc. affecting testing of the relevant products/compliance to this laboratory scheme. The laboratory shall not carry out sampling or accept any sample for testing, when there is breakdown of the equipment to be required for performing the test(s). The laboratory shall not carry out sampling or accept any sample for testing, without prior approval of APEDA, when there is major change in the Management System, which may affect performance of the testing.

3.40. Sample shall always be accompanied by a test request specifying the parameter, specification and purpose. Samples shall be not be accepted by them if they are not accompanied by such test requests. The samplers shall strictly adhere to the sampling procedure of the lab based on instructions issued by APEDA for various food products from time to time/ EC regulations/ Importing country requirements, and provide sampling details as per APEDA requirements. The sample shall be drawn only from the complete Assortment/Batch/Shipment/Consignment/Lot as the case may be having uniform characteristic in the form of source/ production conditions/ processing conditions.

3.41. The samplers shall also ensure drawl of true representative sample of complete Assortment/ Batch/Shipment/ Consignment/ Lot/Source wise/Pond wise (if applicable) as the case may be.

3.42. The laboratory shall ensure the integrity and chain of custody of sample during transportation. Further, laboratory shall ensure that the seal is intact with the details of the sealing indicated in the test request while accepting the samples/ sample containers sealed by regulatory authority / authorized representative of laboratory / processor / exporter. A statement / report to this effect be made receipt of sample and in the rest report by the concerned laboratory.

3.43. The laboratory shall carry out the tests as per the conditions stipulated in the relevant standard method approved by APEDA, which has been satisfactorily validated “as fit for the purpose”, with duly calibrated equipment and use of only valid certified reference materials and /or internal standards.

3.44. The laboratory shall keep the remnants of the sample after testing for a minimum period of one month and reference sample for a period of three months or as prescribed in the relevant procedures in stipulated storage conditions before they are disposed off or returned to the customer. In case of samples tested for Biological parameters the sample shall be retained for reasonable period as per lab’s policy based on APEDA/ importing country’s requirement. The mode of disposal of sample after test shall be recorded and indicated in the test request as well.

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- 3.45. The laboratory shall maintain the record of observations, a copy of the test report and purchase documents for a minimum period of three years. In case of chemicals/media etc., the laboratory shall maintain purchase documents till the validity of chemical/ media etc. Original data/records to establish audit trail/data integrity shall be maintained in the lab pertaining to each activity which affects the quality of test results.
- 3.46. The laboratory shall issue the test reports immediately after completion of the tests and not later than a maximum period of 7 days, excluding the time period for testing by the relevant specification.
- 3.47. The laboratory shall only utilize the service of authorized signatory and authorized samplers complying with the following requirements of NABL/APEDA.
- 3.48. In case of withdrawal/ cancellation of approval, the laboratory shall give an undertaking to make available of the records of APEDA related testing of three years.
- 3.49. The approved laboratories generating Pre-export test reports with digital signatures shall issue test reports directly to APEDA which will issue the Health Certificate and shall not provide any copy of above test report directly to the exporter / processor. Such laboratories shall submit an undertaking in ₹ 100/- Non-Judicial stamp signed by the CEO of the laboratory with respect to above.
- 3.50. The approved laboratory shall participate in Proficiency Testing / Inter-Laboratory Test Comparison programmes organized by national and international bodies of repute for demonstrating technical competence of the laboratory personnel. The Annual proposed plan for participation in Proficiency testing programs pertaining to approved scope for the forthcoming year shall be submitted to APEDA/NABL before 31st December of each year as per Annexure 4. The laboratory shall cover all the critical parameters in the relevant matrix within a period of 2 years. In case of, unsatisfactory result (Quantitative score $Z > \pm 2$) is scored, the same shall be informed to APEDA/NABL immediately with appropriate root cause analysis.
- 3.51. The approved laboratory shall permit access to APEDA officer (s) / team (s) deputed for the purpose of any assessment, surveillance or investigation. It shall give access to all relevant records, documents and equipment etc. for the purpose of verifying any details.
- 3.52. An approved testing laboratory shall not use its approval in such a manner as to bring APEDA/ NABL/Government of India into disrepute/ dispute and shall not make any statement relevant to its approval, which APEDA may consider to be misleading.
- 3.53. Laboratory may relinquish approval by giving three months notice in writing to NABL/APEDA. It shall however wither complete testing of all samples pending with it or return the samples pending along with the test requests. NABL/APEDA may, at its discretion cancel or suspend approval, reduce its scope or direct re assessment due to change in personnel/equipment, breakdown of

equipment, and/ or if a complaint or any other information is received which indicates that the technical competence and integrity / confidentiality of the laboratory is not satisfactory.

3.54. An approved testing laboratory may make a public claim regarding its approval. However, such claim shall be strictly based on the scope of its approval. It shall discontinue claiming APEDA approval and withdraw all promotional and advertising materials upon expiry / suspension or cancellation of its approval. Further, the approved laboratory shall not issue any export worthy certificate / Health certificate for the commodities under the purview of APEDA without written instructions issued by APEDA in this respect to the laboratory.

3.55. The approved laboratory shall submit periodic statements to APEDA containing the particulars, as per the schedule given below in prescribed format

i.	Number of samples declared failing/non compliant	Monthly for the entire month by first working day of the next month
ii.	Number of samples pending testing	- do -
iii.	Delay in issuance of test reports, if any & the reason thereof	- do -
iv.	Number of samples received for testing	once in six months for the period between 1st April to 30th September and 1st October to 31st March of every financial year
v.	Number of samples tested	- do -
vi.	Number of samples declared pass/compliant	- do -
vii.	Number of samples failed specifying the parameter/test and other details	- do -

3.56. The laboratory shall return the pending samples (s) in appropriate conditions to the customer for onward transmission to another laboratory and undertake to retain records as per requirements stated above on cancellation/ withdrawal / non renewal/ expiry of approval.

3.57. The testing charges for the products and parameters shall be applicable as fixed by APEDA from time to time. However, in case the testing charges are not fixed by APEDA, then mutually agreed charges shall be applied. No testing charges shall be applicable for the samples submitted by APEDA for the purpose of ILC (Inter laboratory comparison), proficiency testing, reference sample testing / verification due to complaints, if any, etc.

3.58. For qualification & experience requirements for personnel responsible for authorizing the results, please refer Appendix A of this document.

(Annexure I)

Sampling and Analysis Charges

Sl.	Parameter/Matrix	Analysis charge	Sampling charge
1.			

(Annexure II)

List of products presently being analyzed by laboratory

Sl.	Products	Tick, as applicable
1.	Fresh fruits and vegetables	
2.	Processes fruit and vegetable	
3.	Cereals (rice, wheat, maize) and products	
4.	Meat, poultry, dairy products and honey	
5.	Guar Gum	
6.	Pulses	
7.	GMO & DNA analysis	
8.	Organic Foods	
9.	Millet and its Products	
10.	Floricultural products	
11.	Other processed foods (Alcoholic and Non-Alcoholic beverages, Bakery & Confectionery Products, Canned & Processed Foods, Jams, Juices, Sauces & Concentrates, Snacks and Instant Mixes and Ready to eat food products)	
12.	Nuts (Cashew nuts, walnuts, ground nuts) and its product.	

(Annexure III)

Products interested for recognition of sampling and analysis

Sl.	Products	Tick, as applicable
1.	Fresh fruits and vegetables	
2.	Processes fruit and vegetable	
3.	Cereals (rice, wheat, maize) and products	
4.	Meat, poultry, dairy products and honey	
5.	Guar Gum	
6.	Pulses	
7.	GMO & DNA analysis	
8.	Organic Foods	
9.	Millet and its Products	
10.	Floricultural products	
11.	Other processed foods (Alcoholic and Non-Alcoholic beverages, Bakery & Confectionery Products, Canned & Processed Foods, Jams, Juices, Sauces & Concentrates, Snacks and Instant Mixes and Ready to eat food products)	
12.	Nuts (Cashew nuts, walnuts, ground nuts) and its product.	

(Annexure IV)

Format for annual proposed plan for proficiency testing

Sl.	Analytes	Matrix	Proficiency test (Program ID Number / Round Robin No.)	Start date of proficiency test
1.				
2.				

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4. Additional Requirements of Commodity Board (s)

- 4.1. This document describes specific requirements that a testing laboratory seeking for approval from commodity board e.g. Tea Board has to meet, in parallel to the requirements of ISO/IEC 17025 for accreditation by NABL.
- 4.2. The scope covered shall not include any test by sub-contracting. Sub-contracting is permitted with prior permission of NABL and Commodity Board(s) to another approved laboratory with valid scope of approval only in case of failure of instrument. Subcontracting is not permitted from the laboratory, which is not approved by commodity board.
- 4.3. The assessment shall be conducted to cover areas of the relevance to the scope of approval of the laboratory. Evaluation shall include verification of test facilities, accommodation and environment, examination of documents and records, including in house internationally accepted method validation documents in place that shall be matrix specific for the scope applied for approval, assessment of competence of laboratory personnel in conducting laboratory analysis/ testing, performance in witness tests.
- 4.4. The approved laboratory shall not make any change in the Quality Management System, which forms the basis for the grant of the approval and which prevents its compliance to the Scheme without prior approval of commodity board.
- 4.5. The approved laboratory shall inform NABL/ concerned commodity board, immediately about the major changes/breakdown of equipment with reasons thereof etc. effecting testing of the relevant products/compliance to this laboratory scheme. The laboratory shall not carry out sampling or accept any sample for testing, when there is breakdown of the equipment to be required for performing the test(s). The laboratory shall not carry out sampling or accept any sample for testing, without prior approval of commodity board, when there is major change in the Management System, which may affect performance of the testing.
- 4.6. The sampler shall endorse the relevant records of complete Assortment/ Batch/ shipment/ consignment/ Lot as the case may be, maintained at the place of sampling.
- 4.7. The laboratory is liable to maintain confidentiality of samples and information thereof.
- 4.8. The laboratory shall keep the remnants of the sample after testing for a minimum period of three months and reference sample for a period of six months in stipulated storage conditions before they are disposed off or returned to the customer. In case of samples tested for Biological parameters the sample shall be retained for reasonable period as per lab's policy based on importing country's requirement. The mode of disposal of sample after test shall be recorded and indicated in the test request as well.

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- 4.9. The testing under the scope for approval shall be in compliance to the methods of validation as per the requirements of the importing countries if any.
- 4.10. The Laboratory shall be audited for the harmonized methods of sampling, sample preparation and analysis purpose being followed as per applied scope.
- 4.11. Details of sampling and analysis charges for each product shall also be submitted together with application by the applicant laboratory.
- 4.12. The laboratory shall be subjected to verification audit (informed in advance /uninformed depending upon the nature of complaint) in case of any complaints in sampling, testing and test reports or any other reasons.
- 4.13. For qualification & experience requirements for personnel responsible for authorizing the results, please refer Appendix A of this document.

5. Additional Requirements of Indian Oilseeds and Produce Export Promotion Council (IOPEPC)

- 5.1. This document describes the specific requirements of the Indian Oilseeds and Produce Export Promotion Council (IOPEPC), which a testing laboratory is to comply with in conjunction with the requirements of ISO/IEC 17025.
- 5.2. The laboratory seeking approval shall have implemented and maintained Laboratory Management System in accordance with ISO/IEC 17025 'General Requirements for Competence of Testing and Calibration Laboratories.' Besides, the laboratory shall have adequate capability and competence for sampling and microbiological testing for Salmonella, Pesticides (As per list in IOPEPC Procedure) and Ethylene Oxide Residue (sum of ethylene oxide and 2-chloro-ethanol, expressed as ethylene oxide) in sesame seed samples as per requirements of the European Union and the IOPEPC. For the purpose of certification of sesame seed consignments for export, the samples shall be tested in accordance with European Commission regulations and guidelines.
- 5.3. The application shall be considered on the basis of testing requirements of the IOPEPC and may be rejected on the basis of any one or more of the following grounds:
- The laboratory does not have adequate facilities for the scope of work.
 - The laboratory is subcontracting the test or part thereof under the scope for approval.
 - Any other reason as may be deemed fit by NABL / IOPEPC.
- 5.4. The scope covered shall not include any test by sub-contracting. Sub-contracting may, however, be permitted with prior permission of IOPEPC, to any another IOPEPC approved laboratory with valid scope of approval only in case of any unforeseen breakdown of a major laboratory instrument/equipment/facility and the repairs of which may unduly delay the analysis.
- 5.5. Laboratory will have to obtain membership of the IOPEPC and also registration for online export portal called sesame.net by paying requisite registration fees. All the existing stakeholders in export of sesame seed to EU are registered on sesame.net and the information is uploaded on the portal.
- 5.6. Shortly after the information/request is uploaded by the exporter, the Laboratory will have to depute its trained staff for sampling the sesame seed consignments at the designated and registered processing unit or the warehouse, and subsequently upload the Certificate of Analysis and also the Stuffing Certificate on the portal. The entire procedure of export of sesame seed is being executed online through this portal only.
- 5.7. The charges for sampling and analysis of samples for Salmonella, Pesticides and Ethylene Oxide Residue shall be indicated by laboratory while filing the application.
- 5.8. Copies of SOPs on methods of sampling and analysis as well as evidences for sensitization/training of team members for drawing requisite samples from the consignment and the retention facility available with the laboratory shall also be submitted by the applicant laboratory.

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- 5.9. Only the premises where actual analysis is carried out shall be recognized. In case, the analysis is required to be carried out at more than one premise, recognition of all such premises and facilities shall have to be obtained.
- 5.10. The applicant/approved laboratory shall participate in P.T. programs organized by the respective Referral Laboratory nominated by IOPEPC from time-to-time for the purposes of adopting a harmonized and uniform method of sampling and analysis.
- 5.11. Evaluation of samplers for their competence in the specific area shall also be conducted. The sampler shall have a minimum qualification of graduation.
- 5.12. The testing of Salmonella (ISO-6579-1:2017), Pesticides and Ethylene Oxide Residue under the scope for approval shall be in compliance with the requirements of the European Union and the relevant Regulations, Directives and Decisions of the European Commission.
- 5.13. The approved laboratory can request the NABL for granting approval of additional samplers/signatories. In such cases an onsite assessment of competence of samplers shall be conducted.
- 5.14. During the period of validity of approval, if the laboratory is found to violate any of the specified terms and conditions, the approval is liable to be suspended. The laboratory, however, may represent for verification visits by officials of NABL/IOPEPC to verify the facts and compliance. The laboratory will have to bear the expenses for such paying visits.
- 5.15. If a complaint is received from any of the importing country of the European Union (e.g. RASFF- Rapid Alert System on Food and Feed) against a consignment for presence of Salmonella, Pesticides, Ethylene Oxide Residue, the laboratory which had drawn and tested the samples, shall be subjected to audit (verification audit, with or without advance intimation depending upon the nature of complaint) by a joint team of officers/assessors from the IOPEPC and the NABL. The expenditure for the verification assessment shall be borne by the laboratory. Such verification assessment shall also be conducted in case of other complaints regarding sampling, testing and test reports etc.
- 5.16. Based on the findings of the verification assessment, the NABL in association with the IOPEPC shall take appropriate action which may even amount to suspension / withdrawal of approval as per NABL 216 document.
- 5.17. Any change in key personnel associated with quality assurance technical functions (including personnel responsible for authorizing the results and samplers) or senior management shall have to be duly intimated to IOPEPC/NABL within a period of 15 days.
- 5.18. The approved laboratory shall inform NABL/IOPEPC, immediately about any major changes/breakdown of equipment etc. which may affect the testing of samples in compliance with

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the specifications. And the laboratory shall not carry out sampling or accept any sample for testing during the period of breakdown of the equipment.

- 5.19. The following instructions shall be followed by the approved laboratory for drawing samples of sesame seed at the registered processing unit or warehouse as the case may be.
- 5.20. Only trained, authorized and approved samplers of the laboratory shall draw the samples. The samplers shall strictly adhere to the sampling procedure specified in the regulation for export of sesame seed to European Union. The sampling will be done by following the codex general guidelines (CAC/GL 50-2004), as per EC regulation 2073/2005 and IOPEPC. The details of the sampling procedure are given in Annexure.
- 5.21. Once sampled and sealed, the laboratory would ensure that unit does not shift the consignment to another location or approved premises. In case of exigency, this may be done only under the supervision of the representative of the laboratory. The stuffing will also take place at the same location where the sampling was carried out.
- 5.22. A bag once sampled will not be sampled again.
- 5.23. In case one consignment comprises material from more than one processing lot, the material from different lots will be sampled separately.
- 5.24. The laboratory shall ensure the integrity and chain of custody of sample during transportation. Further, laboratory shall ensure that the lot seal is intact with the details of the seal till the consignment is stuffed.
- 5.25. The laboratory is liable to maintain confidentiality of samples and information thereof.
- 5.26. In order to save time, the consignment may be stuffed in the container soon after drawing the samples in presence of the laboratory representative even before issuance of test report. However, shipment of such container will be allowed only after issuance of Certificate of Export from IOPEPC. The exporter availing this facility will be solely responsible for any liability towards shipping lines, customs and excise authorities, etc., or any consequence arising due to availing the said option.
- 5.27. The laboratory shall carry out the tests as per the conditions stipulated in the relevant standard method of testing of salmonella (ISO-6579-1:2017), IOPEPC stipulated procedure of Pesticides and of Ethylene Oxide Residue. The laboratory shall keep the leftover samples for a minimum period of three months after the testing.
- 5.28. The laboratory shall maintain the record of observations, a copy of the test report and purchase documents for a minimum period of three years. In case of chemicals/media etc., the laboratory shall maintain purchase documents till the validity of chemical/media etc. Original data/records to establish audit trail/data integrity shall be maintained in the laboratory pertaining to each activity which affects the quality of test results.

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- 5.29. The laboratory shall issue the test reports immediately after completion of the tests and not later than a maximum period of seven days after the sampling.
- 5.30. The laboratory shall utilize the services of only authorized signatory (ies) and authorized sampler(s) in compliance with the requirements of NABL/IOPEPC.
- 5.31. In case of withdrawal/cancellation of approval, the laboratory shall give an undertaking to make available the records of IOPEPC related testing of the past three years.
- 5.32. The approved laboratory shall permit access to IOPEPC officer(s) / team(s) deputed for the purpose of any assessment, surveillance or investigation. It shall give access to all the relevant records, documents and equipments etc. for the purpose of verifying any details.
- 5.33. An approved testing laboratory shall not use its approval in such a manner as to bring IOPEPC/Government of India into disrepute/dispute and shall not make any statement relevant to its approval, which IOPEPC may consider to be misleading.
- 5.34. A laboratory may relinquish approval by giving three months notice in writing to both NABL and IOPEPC. It shall, however, complete testing of all samples pending with it or return the samples pending along with the test requests.
- 5.35. NABL/IOPEPC may, at its discretion cancel or suspend approval or direct reassessment due to change in personnel/equipment, breakdown of equipment, and/ or if a complaint or any other information is received which indicates that the technical competence and integrity/ confidentiality of the laboratory is not adequate.
- 5.36. The approval of laboratories may also be suspended / cancelled any time during the approval period for any kind and or the reasons given below:
- If the laboratory is found violating the terms and conditions of the approval; and If the laboratory is unable to maintain the criteria for approval.
 - If 'IOPEPC' is of the opinion that no useful purpose is being served by the continuation of the approval.
- 5.37. The Laboratory may submit a fresh application not earlier than six months from the date of cancellation / withdrawal / non-renewal of approval.
- 5.38. The laboratory shall return the pending sample (s) in appropriate conditions to the customer for onward transmission to another laboratory and undertake to retain records as per requirements stated above on cancellation/ withdrawal / non renewal/ expiry of approval.
- 5.39. For qualification & experience requirements for personnel responsible for authorizing the results. please refer Appendix A of this document.

6. Additional requirements for Food Safety and Standard Authority of India (FSSAI)

- 6.1. FSSAI is mandated under Section 43 of the FSS to recognize by notification, food laboratories and research institutions accredited by National Accreditation Board for Testing and Calibration Laboratories for the purpose of carrying out analysis of samples by the Food Analysts under this Act.
- 6.2. After obtaining NABL accreditation, the laboratories (FSSAI–NABL Integrated assessment) shall apply for FSSAI recognition as per the Food Safety and Standards (Recognition and Notification of Laboratories) Regulation, 2018 for undertaking testing of food products for FSSAI or having their test results/reports accepted by FSSAI as demonstration of compliance to its regulations.
- 6.3. Recognition/authorization of Laboratories under FSSAI is an open and continuous process to be pursued until any further amendment/orders by FSSAI.
- 6.4. Laboratory has to comply in conjunction with the requirements of ISO/IEC 17025.
- 6.5. Laboratories recognized by FSSAI shall comply to Food Safety and Standards Act, Rules and Regulations thereof and amendments made from time to time.
- 6.6. Laboratory shall implement the methods of sampling and analysis mentioned in the manuals as specified by the Food Safety and Standards Authority of India from time to time (as applicable). Method validation criteria shall be as per FSSAI guidelines issued from time to time.
- 6.7. The range of testing of specific parameter under applied scope shall be in line with the Food Safety and Standards Regulations as applicable and amendments made thereunder from time to time.
- 6.8. Laboratories shall submit monthly reports of the testing carried out by them in the format given below to FSSAI:

Food Category	Number of samples	Number of compliant samples	Number of non-compliant samples	Reasons of non-compliance

- 6.9. Laboratories shall regularly upload the test reports of food samples analyzed by them on any online platform of FSSAI (INFoLNET portal or any online platform mandated by FSSAI). In addition to this, the laboratories are required to regularly update their profile on the online platform (INFoLNET portal or any online platform mandated by FSSAI) related to manpower including food analyst, equipment details, test parameters, accreditation details, proficiency testing/ inter-laboratory test comparison programmes, capacity of analysis etc.
- 6.10. Laboratories shall participate in Proficiency Testing or Inter-Laboratory Test Comparison programmes organized by any national or international laboratories in collaboration with FSSAI for

demonstrating technical competence of the personnel of such laboratory, as laid down by the accreditation body.

- 6.11. Equipments and Machinery with their least count and range against the parameters tested as per relevant Food Safety and Standards Regulations as applicable and amendments made thereunder from time to time.
- 6.12. The application for approval shall be considered based on the requirement of FSSAI. NABL/FSSAI reserves the right to reject an application for one or more of the following reasons:
- 6.12.1 The Laboratory is seeking approval for the scope, which is not the need of FSSAI at that time.
- 6.12.2 The Laboratory does not have adequate facilities for the scope for approval and
- 6.12.3 Any subcontracted parameter in the scope.
- 6.12.4 Any other reason as deemed fit by NABL/ FSSAI, without giving any reason.
- 6.13. The FSSAI recognition of Food Laboratory shall be maintained on the following conditions;
- The Food Laboratory continues to maintain the NABL accreditation (in accordance ISO/IEC 17025 and the FSSAI criteria) for the relevant scope;
 - There are no adverse reports/information/complaint with the FSSAI about the Food Laboratory regarding the testing activities performed by the laboratory which are found valid by FSSAI.
 - The FSSAI recognition of the Food lab is valid subject to:
 - Validity of NABL accreditation;
 - the specific period as indicated by FSSAI; and
 - maintains integrity in its operations at all times
 - In case of NABL accreditation cancellation, FSSAI authorization will automatically stand cancelled.
- 6.14. FSSAI shall reserve the right to call for any information from the recognized Food Laboratory, conduct an audit or investigation at its premises, refer any complaint regarding its functioning to NABL and seek any reports from NABL.
- 6.15. FSSAI jointly with NABL may suspend the recognition of laboratories in case its own investigations/audits reveal any adverse findings with due notice to the lab. FSSAI will de-notify Food Laboratory will be as per the provision of Food Safety & Standards (Recognition & Notification of Laboratories) Regulations, 2018.
- 6.16. After debar of FSSAI recognition under integrated process, the Food Laboratory shall be eligible to seek fresh recognition from FSSAI as a new applicant subject to conformance as per requirement of FSSAI after 2 years.

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6.17. All Food Laboratories that are recognized by FSSAI are permitted to mention the same on their stationary, publicity media, communications etc. However, it shall be the responsibility of the recognized Food Laboratory that the recognition is not misrepresented and FSSAI is not brought into disrepute in any manner.

6.18. The laboratory shall seek FSSAI recognition in any one of the following categories:

Category A: Adequate capability and competence for testing of all the safety and quality parameters for the applied category or sub-category in reference to standards specified under relevant Food Product Standards Regulations and amendments thereof from time to time.

Category B: Adequate capability and competence for testing of majority of quality safety parameters (e.g. contaminants, hazards or toxins) for the applied category or sub-category but does not have capability and competence for remaining parameters/analytes. Example: if a laboratory has the capacity to test pesticides, heavy metals and antibiotics but does not have capability to test toxins or a few of pesticides/ heavy metals/ antibiotics, then recognition may be given.

Category C: Laboratories having capability and competence for qualitative /quantitative analysis of safety and quality parameters through rapid kits/screening kits. Laboratories falling within this category will not receive recognition and notification in accordance with Section 43 of the FSS Act, 2006. Instead, they will solely be enlisted for the specified purpose.

Note: Mobile testing facilities shall be applied along with above mentioned categories, as applicable as site facilities.

6.19. Notwithstanding anything mentioned above, all other terms and conditions pertaining to recognition and notification of laboratories shall be governed by Food Safety and Standards (Recognition and Notification of laboratories) Regulations, 2018.

6.20. Laboratory shall have the access to view the certificate of recognition after obtaining the password from FSSAI. Laboratory shall have qualified food analyst as per Rule 2.1.4 of the Food Safety and Standard Rules, 2011. Lab shall provide the details of Food analysts available in the laboratory as annexure 1. Lab shall have qualified food analyst.

Annexure 1

Sr. No.	Name of qualification of Food analyst	Whether qualified under Rule 2.1.4 of the Food Safety and standards Rules,2011	Certificate no. and year of passing	Details of Training / Specialized trainings attended by Food analyst

6.21. Lab shall provide the details of laboratory capacity sample handling as annexure 2.

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Annexure 2

S. No.	Food product/item	Testing time	Numbers of samples can be tested in a month (capacity)

- 6.22. Laboratory shall have Infrastructure available in terms of land; building, laboratory space etc (enclose a layout plan of the laboratory with measurements of areas).
- 6.23. Laboratory shall provide the details of any adverse decision taken against the laboratory (Suspended/debarred/black-list or any action by court of law, central government/ state government or any public authorities including Food authority in the past and whether such proceedings are pending / contemplated against the laboratory).
- 6.24. For qualification & experience requirements for personnel responsible for authorizing the results, please refer Appendix A of this document.
- 6.25. An in-house testing laboratory of Food Business operators will not be considered for FSSAI recognition under integrated assessment.

7. Additional requirements of Spice Board

The Spices Board, one of the five Commodity Boards functioning under the Ministry of Commerce & Industry, is an autonomous body responsible for production (only for cardamom), development, marketing and export promotion of 53 scheduled spices. Spices Board was constituted in 1987 under the Spices Board Act 1986 (No.10 of 1986) with the merger of the erstwhile Cardamom Board and Spices Export Promotion Council.

The main functions of the Board are:

- Research and development and regulation of domestic marketing of small and large cardamom
- Post-harvest improvement of all spices
- Promotion of organic production, processing, and certification of spices
- Development of spices in the North-East region of the country.
- Provision of quality evaluation services
- Spearheading the quality improvement programme for Indian spices
- Export promotion of all spices through support for technology upgradation, quality upgradation, and brand Promotion.

In order to ensure the quality and safety evaluation service of the Board in every nook and corner of the country, a Laboratory Empanelment Scheme (LES) has been introduced in 2021. The LES of the Spices Board has been formulated with the objective of having sufficient number of competent laboratories in India (in addition to Spices Board's Quality Evaluation Laboratories) to cater to the needs of Indian spices export considering the upcoming challenges of various quality and safety requirements set by the importing countries, in respect of pesticide residues, phytotoxins, mineral oil components, food dyes, sterilizing and fumigating agents, PFAs, PAHs, allergens, microbial contaminants, etc. With the above objective, a formal empanelment has been in vogue to the selected ISO/IEC 17025 accredited spices testing laboratories across the country, for the parameters specified by the Spices Board.

The Spices Board has its headquarters in Kochi, regional and zonal offices across the country and ten Quality Evaluation Laboratories (QEL),

This document describes the specific requirements of the Spices Board which, a testing laboratory has to comply in conjunction with the requirements of ISO/IEC 17025. Competence of the laboratories is in consideration of each laboratory's sufficient equipment, personnel with expertise to carry out the specific tests in spices according to the approved methods, and its successful participation in PT/other inter-laboratory quality control scheme, pertaining to those tests in specific spices, covered under NABL accreditation.

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- 7.1. The food testing laboratories with a valid ISO/IEC 17025 accreditation in the testing parameters in spices specified by the board from time to time are eligible for empanelment under this scheme. The scheme does not empanel any firm or laboratory which is directly or indirectly associated with any type of trade in food, and herbal business in order to ensure impartiality and confidentiality in the testing activities.
- 7.2. The laboratories seeking approval shall have implemented and maintained the laboratory management system in accordance with ISO/IEC 17025: “General requirements for competence of Testing and Calibration Laboratories” and adequate capability and competence for testing of food safety and quality parameters as per the requirements of Spices Board and importing countries. The approval for the scope of interest of the Spices Board is granted, provided, it is adjudged for its capabilities and competency as per the international requirements and notifications issued for Spices and Spice Products from time to time.
- 7.3. The scope covered shall not include any test by sub-contracting. Sub-contracting is permitted with prior permission of Spices Board, to another Spices Board-approved laboratory with valid scope of approval only in case of a failure of instrument for a limited period. Subcontracting is not permitted from the laboratory, which is not approved by Spices Board.
- 7.4. Method of analysis
 - 7.4.1 The analytical method and its validation should be as per the requirements of the importing countries and/or as specified by the Board. The specific requirements are detailed in the manual on ‘Laboratory Empanelment Scheme’ published on the Spices Board website.
 - 7.4.2 The analytical instruments/techniques to be used for the testing should be as per the requirements specified in the analytical method, by the importing countries and/or the Spices Board. The specific requirements are detailed in the manual on ‘Laboratory Empanelment Scheme’ published on the Spices Board website.
 - 7.4.3 The range of testing and other performance criteria of the analytical methods should be as per the requirements of the importing countries and/or as specified by the Board. The specific requirements are detailed in the manual on ‘Laboratory Empanelment Scheme’ published on the Spices Board website.
- 7.5. The empanelled laboratory shall participate in Proficiency Testing Programs/other inter-laboratory quality control scheme, pertaining to those tests in specific spices, as required by NABL as per NABL 163 The empanelled laboratory shall also participate in all PT/ILC programs specified by the Spices Board. The laboratory should follow robust internal quality control mechanism to ensure the quality of analytical results.

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7.6. Application for the recognition of laboratories.

7.6.1 The laboratory can submit the application for the empanelment of the laboratory along with the required details against the notification by the Board.

7.6.2 **Provisional Recognition of the Laboratory.** The application, approved scope under ISO/IEC 17025:2017 and other submitted details found are in accordance with the requirements of Spices Board Laboratory Empanelment Scheme and ISO/IEC 17025:2017, a provisional recognition will be granted to the laboratory.

7.6.3 Recognition shall be for two years and the recognized laboratory has to pay the applicable recognition fee for two years and enter into a MOU with the Spices Board. A unique Recognition No. shall be allotted to the LAB.

7.6.4 **Onsite Assessment of the Laboratory.** The recognition conferred as per section Cl. 7.6.2 of this document will be provisional in nature till the completion of onsite assessment. Currently Spices Board has entrusted NABL for the onsite assessment of the laboratory as a part of the NABL integrated assessment program. The laboratory has to ensure that the assessment and accreditation of the parameters recognized under the Spices Board LES has to be completed within six months from the date of provisional recognition through the main integrated assessment or scope addition assessment.

7.6.5 The **regularization of the empanelment:** The empaneled laboratory has to submit the report of the successful completion of the onsite assessment along with the approved scope to the Board for the regularization of empanelment. Accordingly, the Board will issue a letter of confirmation for the regularization of the recognition.

7.6.6 The failure of the LAB to complete the on-site assessment within SIX months from the date of recognition will lead to the suspension of the empanelment. If the LAB is not able to complete the on-site assessment procedure within TWELVE months from the date of provisional empanelment, the empanelment will be treated as cancelled without further notice.

7.6.7 It will be the sole responsibility of the empaneled laboratory to arrange the on-site assessment in a time-bound manner. The Spices Board will not be held responsible for intimating, updating, or reminding the laboratory on the timely completion of on-site assessment and accreditation as per ISO/IEC 17025:2017.

7.7. The analytical reports under this scheme can be authorised by the persons authorised for approving analytical results as per the ISO/IEC 17025/20217 by the NABL. The empanelled laboratory can request NABL for the approval of additional personnel responsible for authorizing the results, after an onsite assessment for the additional authorized signatories as per the procedure.

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- 7.8. The approved laboratory shall not make any change in the Quality Management System, which forms the basis for the grant of the approval and which prevents its compliance to the Scheme without prior approval of Spices Board. Any change in key personnel in relation to quality assurance, key technical functions (including personnel responsible for authorizing the results) or senior management shall be duly intimated to Spices Board /NABL within a period of 15 days.
- 7.9. The approved laboratory shall inform NABL/ Spices Board, immediately about the major changes/breakdown of equipment with reasons thereof etc. effecting testing of the relevant products/compliance to this laboratory scheme. The laboratory shall not accept any sample for testing, when there is breakdown of the equipment to be required for performing the test(s).
- 7.10. The following instructions shall be followed by the empanelled laboratory for testing the samples sent by Spices Board for the purpose of testing:
- 7.10.1 Sample shall always be accompanied by a test request specifying the parameter, specification and purpose, without that sample shall not be accepted for test.
- 7.10.2 The laboratory while accepting the samples shall ensure that the seal is intact with required details of sample code, name of the spice matrix and parameter to be tested are furnished in the official letter received along with the sample.
- 7.11. The laboratory is liable to maintain confidentiality of samples and information thereof.
- 7.12. The laboratory shall carry out the tests as per the conditions stipulated in the relevant standard method approved by Spices Board, which has been satisfactorily validated “as fit for the purpose”, with duly calibrated equipment and use of only valid certified reference materials and /or internal standards.
- 7.13. The laboratory shall keep the remnants of the sample after testing for a minimum period of three months in stipulated storage conditions before they are disposed off. In case of samples tested for Biological parameters the sample shall be retained for reasonable period as per lab’s policy based on Spices Board/ Importing country’s requirement. Records of disposal shall be maintained by the laboratory and produce the same as and when required.
- 7.14. The laboratory shall maintain the record of observations, a copy of the test report and purchase documents for a minimum period of three years. In case of chemicals/media etc, the laboratory shall maintain purchase documents till the validity of chemical/ media etc. Original data/records to establish audit trail/data integrity shall be maintained in the lab pertaining to each activity which affects the quality of test results.
- 7.15. The laboratory shall submit the test reports via online software to the concerned Regional Labs of Spices Board, immediately after completion of the tests. Regional contact details and detailed time

schedule for delivery of samples/issue of test results will be communicated through separate work order issued to the empanelled laboratory.

- 7.16. The laboratory shall only utilize the service of authorized signatory (ies) complying with the requirements of NABL/Spices Board.
- 7.17. In case of withdrawal/ cancellation of approval, the laboratory shall give an undertaking to make available the records of Spices Board related testing of three years.
- 7.18. The empaneled laboratory shall participate in Proficiency Testing / Inter-Laboratory Test Comparison programmes organized by national and international bodies of repute for demonstrating technical competence of the laboratory personnel, at its own cost. The laboratory shall cover all the parameters in the relevant matrix within a period of 2 years, which are under the scope of interest with Spices Board. In case of outlier if any, the same shall be informed to Spices Board immediately with appropriate root cause analysis.
- 7.19. The approved laboratory shall permit access to Spices Board officer (s)/NABL assessors / team (s) deputed for the purpose of any assessment, surveillance or investigation. It shall give access to all relevant records, documents and equipment etc. for the purpose of verifying any details.
- 7.20. An empanelled testing laboratory shall not use its approval in such a manner as to bring Spices Board/ Government of India into disrepute/ dispute and shall not make any statement relevant to its approval, which Spices Board may consider to be misleading.
- 7.21. A laboratory may relinquish approval by giving three months notice in writing to both NABL and Spices Board. It shall however complete testing of all samples pending with it or return the samples pending along with the test requests.
- 7.22. NABL/Spices Board may, at its discretion, cancel or suspend approval, reduce its scope or direct re assessment due to change in personnel/ equipment, breakdown of equipment, and/ or if a complaint or any other information is received which indicates that the technical competence and integrity / confidentiality of the laboratory is not satisfactory.
- 7.23. An empaneled testing laboratory may make a public claim regarding its approval. However, such claim shall be strictly based on the scope of its approval. It shall discontinue claiming Spices Board approval and withdraw all promotional and advertising materials upon expiry / suspension or cancellation of its approval. Further, the approved laboratory shall not issue any export worthy certificate / Health certificate for the commodities under the purview of Spices Board.
- 7.24. The approval empanelled laboratories may also be suspended / cancelled any time during the approval period for any kind and or the reasons given below:
- 7.24.1 If Spices Board feels that no useful purpose is being served by the continuation of the empanelment of the laboratory.

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- 7.24.2 If the laboratory is found violating the terms and conditions of the empanelment
- 7.24.3 If the laboratory is unable to maintain the criteria for empanelment.
- 7.24.4 If the laboratory has been suspended or undergone any adverse action from any of the government regulatory bodies in the country.
- 7.25. The Laboratory may apply afresh not earlier than six months from the date of cancellation / withdrawal / non-renewal of approval.
- 7.26. The laboratory shall return the pending sample(s) in appropriate conditions to the concerned regional lab of Spices Board and undertake to retain records as per requirements stated above on cancellation/ withdrawal / non-renewal/ expiry of empanelment.
- 7.27. Approval under the Scheme shall be accorded to a laboratory for single premise only where actual testing is carried out. If the laboratory carries out testing activities in more than one premise, separate approval for each premise will have to be obtained with a clear demarcation of scope of empanelment.
- 7.28. The testing charges for the products and parameters shall be applicable as fixed by Spices Board from time to time. No testing charges shall be applicable for the samples submitted by Spices Board for the purpose of ILC (Inter laboratory comparison), proficiency testing, reference sample testing / verification due to complaints, if any, etc. The board reserves the right to avail charges for ILC/PT programs arranged by the Board.
- 7.29. The recognition process, application form, application fee, testing charges, parameters & other details are given in the manual on 'Laboratory Empanelment Scheme' published in the Spices Board website.

8. Additional requirements of Shellac & Forest Products Export Promotion Council (SHEFEXIL)

- 8.1. This document describes specific requirements of SHEFEXIL, which, a testing laboratory has to comply in conjunction with the requirements of ISO/IEC 17025: 2017.
- 8.2. Laboratories approved by Shefexil shall cater to SHEFEXIL Scheduled Products. The assessment shall be conducted shall cover areas of the relevance to the scope of approval of the laboratory. Evaluation shall include verification of test facilities, accommodation and environment, examination of documents and records, including in house internationally accepted method validation documents in place that shall be matrix specific for the scope applied for approval, assessment of competence of laboratory personnel in conducting laboratory analysis/ testing, performance in witness tests, documentary evidence of participation in PT programme
- 8.3. It is mandatory to carry out the sampling and testing by SHEFEXIL approved laboratory only. Refer to annexure 2 for Reporting format.
- 8.4. Laboratory shall follow the sampling procedure in accordance with Commission (EU) Directive 2002/63/EC or any amendments thereto or substitution thereof and reference to the same shall be provided in the test report.
- 8.5. Laboratory shall maintain appropriate sampling records and the same to be retrieved during the laboratory assessment.
- 8.6. Laboratory shall draw three samples during sampling- one sample for laboratory testing, one sample to be given to the Shipper and one control sample must be maintained by the lab and will be asked during any investigation on receipt of any concern. Laboratory shall maintain the control sample for a period of 6 months under appropriate environment conditioning.
- 8.7. Whenever required, the approved laboratory shall draw samples only by its own trained, authorized, and approved samplers. The approved samplers shall have the minimum qualification of graduation along with appropriate sampling experience and training
- 8.8. The testing under the scope for recognition shall be complying to the analytical methods of validation as per the requirements of the importing countries.
- 8.9. The Laboratory shall be audited for internationally accepted harmonized methods of sampling, sample preparation and analysis purpose.
- 8.10. The laboratory shall be subjected to verification audit (informed in advance /uninformed depending upon the nature of complaint) in case of any complaints in sampling, testing and test reports or any other reasons.
- 8.11. Based on the finding of the verification assessment, NABL along with SHEFEXIL shall take appropriate action including suspension /withdrawal of approval of the laboratory as per NABL 216 document.
- 8.12. The applicant laboratories seeking approval and accreditation as per integrated assessment process shall have the required scope of testing for the applied SHEFEXIL scheduled products and have participated in proficiency testing program for the applied scope
- 8.13. The laboratories shall comply with the following before applying to SHEFEXIL for approval and NABL for accreditation. Availability of the required high precision GC-MS/MS, HPLC-MS/MS and other required laboratory facility to perform the scope of testing etc. with appropriate back-up, supporting equipment as well as accessories so as to ensure prescribed turn- around time
- 8.14. Approval under the Scheme shall be accorded to a laboratory for single premises only where actual testing is carried out. If the laboratory carries out testing activities in more than one premise,

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separate approval for each premise will have to be obtained with a clear demarcation of scope of approval

- 8.15. There shall be documented validation reports, proficiency tests results, analytical spectrum and methods, standard operating procedures for analytical method, resources and training etc.
- 8.16. In the drawing and analysis of samples, adequate sampling and appropriately validated analytical methods should be established to ensure that the results are representative and reliable in relation to the specific objectives and during export rejections our results shall stand robust and traceable in international market.
- 8.17. Non-conformities/ Export Rejections Where an exported product is found not to be in conformity, the resulting measures should take into account the following criteria to ensure that any action is proportionate to the degree of public health risk, potential fraud or deception of consumers:
- Repeated non-conformity in the same importing country or in the same product or in the same category of products
 - History of non-conformity of those responsible for handling the products;
 - Reliability of checks.
 - In respect of the product not in conformity, control programmes to ensure problems do not re-occur.
 - Analytical report of non-compliant samples shall be documented and retained in records.
- 8.18. In case any consignment is rejected or rapid alert is issued by the Port Health, SHEFEXIL traces the cause of such rejection both at Establishment side and Testing laboratory side for a “Root cause Analysis report” and takes steps depending upon the outcome of such investigation.
- 8.19. If SHEFEXIL comes to know any Rapid Alert published against any OCs issued by SHEFEXIL then immediately SHEFEXIL will investigate the particular commodities against which inspection cum test report issued by which laboratory and instruct that laboratory to find out the root cause analysis and to take the corrective analysis against the non-conforming work happened which will be investigated by SHEFEXIL.

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Annexure 2

Annexure-2

Test report template

Issued To:

Registration/Report No.

COMPANY NAME

Address

Ph:XXXXXXXXXXXXXXXXXXXX

Kind Attn: Mr. YYYY

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Customer Provided Details :			
Sample Name:			
Manufacturer:		Batch/Lot Number:	
Mfg. Date:		Exp. Date:	
Test Required:	Pesticide Residues (Sum of Ethylene oxide and 2-chloroethanol expressed as Ethylene oxide)		

2

Other Details if Any:			
Sampling Details:			
Lab Provided Details :			
Sample Received Date:		Sample Registration Date:	
Analysis Starting Date:		Analysis Completion Date:	
Received Quantity:			
Method of Testing:	For Ethylene oxide: Validated method XXXXXXXXXX		
Other Details if Any:	SAMPLE TESTED AS RECEIVED		

**Chemical
Residues in Food Products**

TEST RESULTS

S. No.	Test Parameters	UOM	Requirements as per Commission regulation (EU) 2015/868 amending Annexes II, III and V to Regulation (EC) No 396/2005	Results
2	Ethylene oxide (sum of Ethylene oxide and 2-chloroethanol expressed as Ethylene oxide)	mg/kg	Max 0.020	Not detected

Remarks : Instrument used :GC-MS/MS, Quantification Limit : 0.01 mg/kg;

Conclusion: Sample conforms to the EU MRLs for the tests specified in the Commission implementing regulation (EU) 2021/2246 of 15 Dec2021 amending Implementing Regulation (EU) 2019/1793

- END OF THE TEST REPORT -

Name and Designation of Authorized Signatory

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9. Additional requirements of Coconut Development Board

- 9.1. The Coconut Development Board (CDB) is a statutory body established by the Government of India for the integrated development of coconut production and utilization in the country, recommending measures for regulating the import and export of coconut and its products. The board operates under the administrative control of the Ministry of Agriculture and Farmers Welfare, with its headquarters located in Kochi. The board has four regional offices, six state centres, and eleven demonstration and seed production (DSP) farms across the country.
- 9.2. The Department of Commerce, Ministry of Commerce and Industry, Government of India, has notified the Coconut Development Board as an Export Promotion Council vide notification no. 169 (RE-2008)2004-2009 for all coconut products other than those made from coconut husk and fiber.
- 9.3. In pursuance of the above notification coconut products such as tender coconuts, tender coconut water, packed tender coconut water, nata-de-coco, coconut water based vinegar, coconut water based soft drinks/beverages, raw coconuts, partially dehusked coconuts, Desiccated coconut powder, skimmed milk powder, coconut milk/cream, coconut oil, dry coconuts, ball copra, cut copra coconut flakes, coconut chips, coconut gratings, coconut parings, coconut chutney powder, medicated coconut oil, virgin coconut oil, coconut based convenience foods, coconut shell, Coconut shell powder, coconut shell charcoal, coconut shell based activated carbon etc. fall within the jurisdiction of Coconut Development Board.
- 9.4. With the above mandate and for the continual monitoring of the quality, safety, and adulteration activities in coconut products for better export trade practices, it has been decided to establish a comprehensive laboratory network through the CDB Laboratory Recognition Scheme for testing coconut products, including polyaromatic hydrocarbons (PAHs), Salmonella, Sulphites, Mycotoxins, Heavy metals, and Pesticides, as required by importing countries.
- 9.5. This document describes the specific requirements that a testing laboratory seeking approval from the Coconut Development Board:
- 9.5.1 The laboratory, intended to apply for CDB approval, shall apply through NABL and will undergo an assessment as per ISO/IEC 17025:2017 and CDB requirements.
- 9.5.2 The applied scope shall be relevant to coconut and coconut products testing only.
- 9.5.3 The laboratory shall have a Laboratory Management System as per ISO/IEC 17025:2017 requirements and adequate facilities for testing of coconut products quality and safety parameters.
- 9.5.4 The approval is given, considering the technical competency to test the coconut products intended for export purposes.
- 9.5.5 The laboratory shall have enough facilities to test the notified coconut products for Salmonella in biological and polyaromatic hydrocarbons (PAHs) including Benzo(a) pyrene and Sum of four PAHs (benzo(a) pyrene; benz(a) anthracene; benzo(b) fluoranthene and chrysene), mycotoxins, heavy metals, 3-monochloropropanediol (3-MCPD), and pesticide residues (as per the EU pesticide list for coconut) in the chemical discipline. As the MRLs are dynamic in nature, the laboratory shall have regular updates for the specific MRL revisions.
- 9.5.6 The laboratory shall not be involved in subcontracting unless it is urgent to do so, except in case of any sudden breakdown, with prior permission from NABL and CDB.

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- 9.5.7 The assessment shall be conducted to verify the required laboratory infrastructure, personnel, resources, reference materials and equipment with the appropriate detection limits, test witness and proficiency testing participation etc.
- 9.5.8 The laboratory-developed residue test methods shall be validated in line with the importing country's MRL requirements for the specific coconut matrix.
- 9.5.9 The laboratory shall have a trained sampler for the sampling of coconut products from the consignment, warehouse, or board-registered processing or manufacturing units. The sampler details, including education and training, have to be provided along with the application. The sampler shall have a minimum qualification of graduation with relevant sampling training.
- 9.5.10 The qualification, experience, and skills of the authorized personnel will be as per the NABL 154 document.
- 9.5.11 The laboratory shall submit the sampling and testing charge for each coconut product along with the application (Annexure 1). The board may finalize the testing charges and the same shall be agreed to the applicant laboratories. Otherwise, the charges mutually agreed between the laboratory and the exporter shall be agreeable.

Sampling and Analysis Charges (Annexure 1)

Sl.	Parameter/Matrix	Analysis charge	Sampling charge
1.			
2.			

- 9.5.12 In case CDB is undertaking any processing/manufacturing unit surveillance activities and sends the sample shall be agreed to the applicant laboratories. Otherwise, the charges mutually agreed between the laboratory and the exporter shall be agreeable to the approved laboratory, the testing charges fixed by the CDB shall only be applicable.
- 9.5.13 The application will be considered only for the permanent testing facility for the specific location.
- 9.5.14 CDB may ask the laboratory to participate in the referral laboratory PT program from time to time to validate the sampling and analysis activities.
- 9.5.15 Manufacturers/processors in-house laboratory will not be considered for the approval.
- 9.5.16 In case of any non-compliance or misleading of the fact, CDB & NABL shall take appropriate action as per NABL 216.
- 9.5.17 The laboratory has to submit the monthly sample report through the prescribed format given below.

Format-1	
MONTHLY SAMPLE DETAILS	
<i>(Monthly for the preceding month by the first week of the next month)</i>	
Total number of samples received for testing	
List of specific coconut matrix/products with the number of samples received	
Number of samples tested	
Number of samples pending for testing	
Number of samples in compliance with the relevant specification/regulation	
Number of samples failed by specifying the matrix/test parameter/specification, and other details	

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- 9.5.18 In case of withdrawal/cancellation of approval, the laboratory shall undertake to make available the CDB-related testing for the past two years.
- 9.5.19 The laboratory shall allow access to the assigned CDB officers for assessment or any specific surveillance, including access to all related documents, files, and records.
- 9.5.20 The laboratory shall not use CDB approval in such a manner as to bring CDB/Government of India into any dispute and shall not make any statement relevant to its approval, which CDB may consider to be misleading.
- 9.5.21 NABL/CDB may, at its discretion, cancel or suspend approval in case any complaint or any other information indicates that the technical competency/integrity is not adequate or violates the terms and conditions of the approval.
- 9.5.22 Approval may also be cancelled if CDB is of the opinion that no useful purpose is being served by the continuation of approval.

10. Additional Requirements for Mobile Food Testing Laboratories (MFTLs)

10.1. Mobile Food Testing Laboratory is a laboratory on wheels capable of conducting physical, chemical, microbiological, or rapid screening and confirmatory tests on food and related samples at field locations outside a permanent facility of the laboratory complying with the requirement of the standard and regulatory requirements. Mobile Testing Laboratories does not mean testing while mobile vehicle is moving, testing should be done when mobile vehicle is parked/ stationed.

10.2. This criterion applies to:

- Van-mounted or transportable food testing laboratories.
- Government-operated MFTLs [e.g., under Food Safety and Standards Authority of India initiatives such as Food Safety on Wheels (FSWs)].
- Private laboratories operating mobile units (Only for type II)
- Government laboratories operating mobile units

10.3. Categories of Mobile Testing laboratory

A. Type I – Screening MFTLs (Individual mobile vehicle shall apply separately for type I)

- a. Rapid field-based Screening testing
- b. Semi -quantitative methods
- c. Surveillance

B. Type II – Advanced MFTLs

- a. Confirmatory Testing
- b. Use of advanced instrumentation (e.g LCMS/GC-MS, ICP-MS)

10.4. Legal Entity

- a. The MFTL shall be operated by a legal entity as defined in NABL 131.
- b. Necessary approvals from regulatory authorities shall be in place.
- c. The ownership, operational control and responsibility of the mobile facility shall be clearly defined.
- d. Valid registration/ authorization from relevant transport and local authorities, whenever applicable of the mobile vehicle used for testing activities shall be maintained by the laboratory
- e. The recognized/approved scope of testing for mobile operations shall be clearly defined and documents.

10.5. Personnel Competence

- a. Qualified technical staff with defined roles and responsibility shall be available.
- b. The laboratory shall ensure that personnel associated with the mobile facility are appropriately trained in the following areas:
 - i. Mobile testing operations.
 - ii. Equipment handling under field conditions.
 - iii. Safety and hygiene practices.
 - iv. Sample collection, handling, transportation and storage
 - v. Personnel shall be trained in maintaining integrity and traceability of samples during transportation and testing.
 - vi. Records of training, competency assessment, authorization shall be maintained.

10.6. Accommodation & Environmental Conditions

- a. All laboratory activities, including sample receipt, registration, grinding, extraction, purification, evaporation/reconstitution, analysis, data review, and report preparation, should be carried out

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within the mobile laboratory/container itself. In case any supporting activities (i.e. sample preparation etc.) to be performed outside the container/mobile van, the same shall be audited each time the laboratory is relocated from one location to another.

- b. Laboratory shall maintain required environmental condition such as temperature, humidity, ventilation, vibration control, operational stability inside the mobile van.
- c. Adequate workspace shall be available within the mobile vehicle for safe & effective testing activities to ensure reliable test results.
- d. Laboratory shall ensure the availability of the following:
 - i. Vibration resistant setup for sensitive instruments.
 - ii. Power backup systems (generator/UPS).
 - iii. Adequate lighting and ventilation.
- e. Provisions shall be made to prevent contamination, cross contamination and deterioration of samples and reagents.
- f. Storage conditions for chemical, standards, reference materials and samples shall be controlled and documented.
- g. For a Type II facility, the mobile vehicle shall be provided with an alternate power supply system to ensure uninterrupted operation of laboratory activities.

10.7. Equipment

- a. Laboratory shall ensure that all the equipment are having valid calibration & capable of achieving the required measurement accuracy.
- b. Equipment shall be:
 - i. Fit for intended use under mobile operating conditions.
 - ii. Installed with shock-resistant (as applicable).
 - iii. Protected against adverse environmental conditions during transportations and operations.

10.8. Method Validation

- a. The method shall be appropriately validated or verified, as applicable, before being placed into service.
- b. Rapid Kits and screening methods shall be periodically verified against recognized reference methods (Not applicable for FSSAI approved RAFT kits).

10.9. Rapid kits shall be validated internationally and nationally to ensure that method is fit for intended purpose Measurement Traceability

- a. Calibration of critical instruments to be carried out and recalibration to be done when there is change in facility.
- b. Recalibration shall be performed, whenever significant change occurs in facility conditions or after major repair.

10.10. Sampling and Sample Handling

- a. The laboratory shall establish documented procedures for sample collection, labelling, transportations, storage and disposal.
- b. Sample integrity shall be maintained throughout the testing process.

10.11. Reporting of Results

Test reports shall clearly indicate:

1. Location (GPS/area).
2. Nature of test performed (screening/confirmatory).
3. Date and time of sample collection and testing

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4. Statement indicating whether results are preliminary or confirmatory, whenever applicable
5. Electronic reporting systems, where used, shall ensure integrity, security and confidentiality of data.
6. Any deviation from standard procedures during filed operation shall be recorded in the report.

10.12. Safety Requirements

- a. Online gas/VOC analyzers/ spot extractors should be installed inside the mobile laboratory/container to monitor air quality, enabling personnel to use appropriate Personal Protective Equipment (PPE) based on exposure conditions.
- b. Proper fire exit arrangements shall be provided considering the higher risk of fire hazards due to the use of gases, solvents, and operation of instruments such as GC systems operating at elevated temperatures (up to 300°C).
- c. Laboratory should have proper storage or handling equipments for live cultures/positive reference cultures inside the mobile laboratory with proper segregation to avoid cross contamination / environmental health concerns. Laboratory should be equipped with disposal of biological contaminant material with proper treatment. Waste generated during testing shall be disposed of in accordance with applicable regulatory requirements.
- d. Spill management and first aid arrangement shall be available within the mobile van.
- e. The mobile laboratory shall ensure compliance with applicable safety requirements relating to:
 - Chemical handling and storage.
 - Waste management and disposal.
 - Fire prevention and fire safety.
 - Electrical safety.
 - Biosafety, where applicable.

10.13. Data Integrity and Information Management

- a. The laboratory shall ensure integrity, confidentiality and security of electronic data generated during mobile operations.
- b. The laboratory shall ensure the following:
 - Secure handling of electronic data.
 - Backup of testing records and reports.
 - Protection against unauthorized data access or modification.
 - Traceability of test records generated at field locations.
- c. The laboratory shall maintain a complete audit trail for all testing activities carried out by the laboratory, along with documented evidence ensuring the integrity and traceability of the chain of custody for sampling activities.

10.14. Assessment and Surveillance

- a. The laboratory shall inform the location of the mobile testing facility while applying for accreditation (First Accreditation/ Renewal of accreditation/recognition/approval) and the assessment shall be conducted at the location where the mobile facility is stationed.
- b. If the mobile facility is attached to a laboratory, assessments shall be conducted for both facilities i.e. the permanent and mobile facilities.
- c. The mobile facility which is stationed at the location shall be assessed during surveillance assessment.

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- d. If laboratory apply for accreditation of multiple mobile facility, each mobile facility to be declared and assessment will be conducted for all mobile facility attached with one organization / office / laboratory.
- e. NABL may witness actual onsite/mobile testing activities during assessment, whenever applicable.
- f. The scope of accreditation shall clearly identify the specific mobile food testing laboratory covered under accreditation.

10.15. Connectivity and Tracking

The mobile facility shall be equipped with:

- a. GPRS or equivalent tracking and communication system for real-time location monitoring.
 - i. Real time communication capability with the parent laboratory, regulatory during field deployment.
 - ii. Secure internet/data connectivity for reporting and transmission of results, wherever applicable.
 - iii. GPS tracking records shall be retained for traceability of testing activities.
 - iv. Communications systems shall ensure timely reporting of emergencies, equipment failures or operational disruptions.
 - v. The laboratory shall maintain deployments logs indicating route, location during of operation, and testing activities performed.

10.16. Relocation of Mobile Facility

- The laboratory shall notify NABL and the concerned regulatory authorities at least 15 days in advance of any proposed relocation of the mobile facility.
- Following relocation, the laboratory shall provide NABL and the concerned regulatory authorities with the complete geographical location details of the mobile facility.

10.17. Quality Assurance

- a. The laboratory establishes internal quality control procedures suitable for mobile operations.
- b. Participation in proficiency testing / inter laboratory comparison programs shall be undertaken as per NABL 163 and regulatory requirements.
- c. Corrective actions shall be implemented for non-conforming work identified during mobile testing activities.
- d. Periodic internal audit covering mobile operations shall be conducted
- e. Management review shall include evaluation of risks and performance of mobile testing activities.
- f. For Type II, after relocation from one site to another, instruments shall undergo complete calibration, method verification, and participation in at least one Proficiency Testing (PT) activity prior to undertaking commercial or regulatory sample analysis.

10.18. Additional requirements of Regulatory Bodies

- a. Mobile laboratories used for regulatory surveillance shall follow instructions / guidelines issued by Food Safety and Standards Authority of India and concerned state food safety departments.
- b. Testing activities performed during food safety drives, surveillance, or enforcement activities shall maintains impartiality and confidentiality.
- c. Record of filed inspections, sample collections and test results shall be maintained and made available to regulatory authorities, wherever required.

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- d. Screening results indicating possible non-compliance shall be followed by confirmatory testing through appropriately NABL accredited /-recognized laboratories under integrated assessment program, wherever, required under regulatory provisions.
- e. Mobile laboratories handling export related testing may have adequate provisions for storage and retention of control samples (remnant and reference) of export consignments.
- f. The remnant and reference samples shall be retained as per the prescribed time frames mentioned by regulatory bodies.
- g. Laboratory has to define the estimated capacity per month to perform testing in mobile laboratory, considering laboratory architecture, availability of instruments/ equipment, biosafety requirements and personnel.

S. No.	Food product/item	Testing time	Numbers of samples can be tested in a month (capacity)

- h. Laboratories shall submit monthly reports of the testing carried out by them in the format given below to FSSAI and other regulatory bodies:

Food product	Number of samples Tested	Number of compliant samples	Number of non-compliant samples	Reasons of non-compliance

- i. The specific regulatory requirements stipulated in NABL 127 and / or as communicated through Office Orders, Notifications, Advisories, and other applicable instructions issued from time to time, shall also be complied with.

Qualification & Experience Requirements for personnel responsible to authorize results

S. No	Minimum Qualifications	Minimum Years of Relevant hands-on Experience
1.	Bachelor degree in Engg / Technology or Post Graduate in Science in the same field of testing / calibration	Two Years' experience
2.	Bachelor degree in Engg / Technology or Post Graduate in Science in the Similar* field of testing / calibration	Three Years' experience
3.	Diploma in Engg. / Technology or Graduate in Science in the same field of testing / calibration	Three Years' experience
4.	Diploma in Engg. / Technology or Graduate in Science in the Similar* field of testing / calibration	Five Years' experience
5.	ITI / Equivalent	Ten Years' experience.
6.	Irrespective of the qualifications and experience, personnel accepted by the regulator, shall be considered eligible for those testing activities.	
<u>Note -</u> (b) *Similar field may be considered when that particular subject is covered in the said qualification. (c) Qualification with specialized field like food, pharma, civil etc. shall be considered eligible for groups falling under more than one discipline of testing / calibration; (d) In each case, merely requisite qualifications and experience is not sufficient to become the personnel responsible to authorize results; the technical competence shall be verified by NABL assessment team before recommending as personnel responsible to authorize results.		

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